

Set	Items	Description
S1	13	AU=(LEWALLEN D? OR LEWALLEN, D?)
S2	0	DAVID(2N)LEWALLEN
S3	1068422	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S4	455397	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S5	8	S1:S2 AND S3:S4
S6	8	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2004/Feb(Updated 040607)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200439

(c) 2004 Thomson Derwent

?

6/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016230077 **Image available**
WPI Acc No: 2004-387966/200436
XRPX Acc No: N04-308837

Soft tissue compressive force reducing method for spinal cord injury patient, involves imbedding opposing magnet in wheelchair to produce opposing force acting on permanent magnet implanted in ischial tuberosity of pelvis

Patent Assignee: LEWALLEN D G (LEWA-I)

Inventor: LEWALLEN D G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040077922	A1	20040422	US 2002406468	P	20020828	200436 B
			US 2003650266	A	20030828	

Priority Applications (No Type Date): US 2002406468 P 20020828; US 2003650266 A 20030828

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040077922	A1		5	A61N-002/00	Provisional application US 2002406468

Soft tissue compressive force reducing method for spinal cord injury patient, involves imbedding opposing magnet in wheelchair to produce opposing force acting on permanent magnet implanted in ischial tuberosity of pelvis

Inventor: LEWALLEN D G

Abstract (Basic):

... The method involves implanting a permanent magnet (30) in an ischial tuberosity (18) of the pelvis of a human seated in a wheelchair, where the permanent magnet is housed in a circular cylindrical container (32). An opposing magnet (34) is imbedded in a supporting seat cushion (36) of the wheelchair for producing an opposing force that acts upward on the implanted magnet .

... An INDEPENDENT CLAIM is also included for a magnet assembly for reducing compressive forces on soft tissue disposed between a bone in a subject...

...The opposing magnet is imbedded in a supporting seat cushion to produce an opposing force that acts upward on the implanted magnet , thereby alleviating excessive pressure on the bone prominence, and hence allows for better perfusion of...

...Permanent magnet (30...

...Opposing magnet (34...

...Title Terms: MAGNET ;

International Patent Class (Main): A61N-002/00

International Patent Class (Additional): A61B-017/52

6/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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016189946 **Image available**
WPI Acc No: 2004-347832/200432
XRAM Acc No: C04-132286

Prosthesis e.g. femoral prosthesis, has stem segments having longitudinal length greater than groove and transverse grooves having different longitudinal length such that stiffness of stem varies from proximal to distal ends

Patent Assignee: LEWALLEN D G (LEWA-I)

Inventor: LEWALLEN D G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040088056	A1	20040506	US 2002287113	A	20021104	200432 B

Priority Applications (No Type Date): US 2002287113 A 20021104

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040088056	A1		10	A61F-002/32	

Inventor: LEWALLEN D G

International Patent Class (Main): A61F-002/32

6/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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016187907 **Image available**

WPI Acc No: 2004-345793/200432

XRPX Acc No: N04-276452

Implantable magnet assembly for treating osteoarthritis, has permanent magnets provided in the cavity of container, such that container is implanted and retained in bone when bone grows into porous metal material
Patent Assignee: BARNES D E (BARN-I); KAUFMAN K R (KAUF-I); LEWALLEN D G (LEWA-I)

Inventor: BARNES D E; KAUFMAN K R; LEWALLEN D G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040059423	A1	20040325	US 2002254232	A	20020925	200432 B

Priority Applications (No Type Date): US 2002254232 A 20020925

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040059423	A1		16	A61F-002/30	

Implantable magnet assembly for treating osteoarthritis, has permanent magnets provided in the cavity of container, such that container is implanted and retained in bone...

...Inventor: LEWALLEN D G

Abstract (Basic):

... Permanent magnets (10,12) are provided in the cavity of a container made from porous metal material. A cover is attached to the container for holding the magnet in the cavity. The container is implanted and retained in a fixed location in the...

... a) Implanting method of magnet in a bone; and...

...b) System for designing the deployment of permanent magnets .

...The figure illustrates a knee joint showing the implantation of permanent magnets .

...Permanent magnets (10,12
...Title Terms: MAGNET ;
International Patent Class (Main): A61F-002/30

6/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015768455 **Image available**
WPI Acc No: 2003-830657/200377
XRAM Acc No: C03-234034
XRPX Acc No: N03-663720

Modular acetabular support structure, for receiving socket of joint
prosthesis, comprises anti-protrusion cage, and acetabular cup

Patent Assignee: LEWALLEN D G (LEWA-I)

Inventor: LEWALLEN D G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030171818	A1	20030911	US 2002351748	P	20020125	200377 B
			US 2003349596	A	20030123	

Priority Applications (No Type Date): US 2002351748 P 20020125; US
2003349596 A 20030123

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030171818	A1	15	A61F-002/34	Provisional application	US 2002351748

Inventor: LEWALLEN D G

International Patent Class (Main): A61F-002/34

6/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015469390 **Image available**
WPI Acc No: 2003-531536/200350
XRAM Acc No: C03-143499
XRPX Acc No: N03-421700

Prosthesis for implanting into bone, has first and second coatings, with
the first coating having ratio of bone ingrowth promoting material to
bioabsorbable material greater than that of second coating

Patent Assignee: LEWALLEN D G (LEWA-I); MAYO FOUND MEDICAL EDUCATION & RES
(MAYO-N)

Inventor: LEWALLEN D G

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030045941	A1	20030306	US 2001315128	P	20010827	200350 B
			US 2002225624	A	20020822	
US 6749639	B2	20040615	US 2001315128	P	20010827	200439
			US 2002225624	A	20020822	

Priority Applications (No Type Date): US 2001315128 P 20010827; US
2002225624 A 20020822

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030045941	A1	11	A61F-002/30	Provisional application	US 2001315128

US 6749639 B2 A61F-002/28 Provisional application US 2001315128
Inventor: LEWALLEN D G
International Patent Class (Main): A61F-002/28 ...

... A61F-002/30
International Patent Class (Additional): A61F-002/36

6/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015418314 **Image available**
WPI Acc No: 2003-480454/200345
XRPX Acc No: N03-381974

Prosthetic system for implantation in cavity in end of bone, has
prosthetic implant which is received in channel of support structure
which is secured to inner surface of cavity in end of bone

Patent Assignee: HANSSEN A D (HANS-I); LEWALLEN D G (LEWA-I)
Inventor: HANSSEN A D; LEWALLEN D G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030065397	A1	20030403	US 2001315148	P	20010827	200345 B
			US 2002225774	A	20020822	

Priority Applications (No Type Date): US 2001315148 P 20010827; US
2002225774 A 20020822

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030065397	A1	23		A61F-002/28	Provisional application US 2001315148

...Inventor: LEWALLEN D G

International Patent Class (Main): A61F-002/28

International Patent Class (Additional): A61F-002/32 ...

... A61F-002/38

6/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015214005 **Image available**
WPI Acc No: 2003-274542/200327
XRPX Acc No: N03-217820

Ultrasound imaging device for medical applications, displays several soft
keyboards each exhibiting predetermined function, when selected using
touch pad

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)

Inventor: KINICKI R M; LEWALLEN D W ; MAIER D G; SACCARDO G M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6491630	B1	20021210	US 2000710984	A	20001109	200327 B

Priority Applications (No Type Date): US 2000710984 A 20001109

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6491630	B1	13		A61B-008/00	

...Inventor: LEWALLEN D W

Discard

International Patent Class (Main): A61B-008/00

6/3,K/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014869225 **Image available**
WPI Acc No: 2002-689931/200274
XRPX Acc No: N02-544190

Portable ultrasonic diagnostic device for medical application, has
console panel with buttons and icons through which commands are input to
perform predetermined imaging or execute specific function

Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)

Inventor: BLACKWELL-JONES J M; COLLAMORE B; KINICKI R M; LEWALLEN D W ;
RHOADS P K; SACCARDO G M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6436040	B1	20020820	US 2000710609	A	20001109	200274 B .

Priority Applications (No Type Date): US 2000710609 A 20001109

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6436040	B1	20		A61B-008/00	

...Inventor: LEWALLEN D W

International Patent Class (Main): A61B-008/00

DISREGARD

Set	Items	Description
S1	2	AU=(LEWALLEN D? OR LEWALLEN, D?)
S2	2	DAVID(2N)LEWALLEN
S3	158329	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S4	109515	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S5	41	S1:S2 AND S3:S4

? show files

File 348:EUROPEAN PATENTS 1978-2004/Jun W02

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040617,UT=20040610

(c) 2004 WIPO/Univentio

5/5,AU/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00829266

AUTOMOBILE AIRBAG DEACTIVATION SYSTEM
SYSTEME DE DESACTIVATION D'AIRBAGS D'AUTOMOBILES

Patent Applicant/Inventor:

LEWALLEN David G, 1220 7th Street S.W., Rochester, MN 55902, US, US
(Residence), US (Nationality)
LOVETT Richard J, 1220 7th Street S.W., Rochester, MN 55902, US, US
(Residence), US (Nationality)

Legal Representative:

LARRY Wm Alexander (et al) (agent), Patterson, Thuente, Skaar &
Christensen, P.A., 4800 IDS Center, 80 South Eighth Street,
Minneapolis, MN 55402-2100, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200162555 A1 20010830 (WO 0162555)
Application: WO 2001US5590 20010221 (PCT/WO US0105590)
Priority Application: US 2000507963 20000222

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: B60R-021/01

Publication Language: English

Filing Language: English

Fulltext Word Count: 2620

English Abstract

An automobile airbag deactivation system is provided to enable emergency services personnel to prevent uninflated airbags from inflating when crash victims are being extricated from crashed automobiles. The system would enable emergency services personnel to deactivate all airbag inflation systems. The airbag deactivation system includes an interrupt switch and a switch control. The interrupt switch is located so as to prevent airbag inflation, such as between the airbag control circuitry and the airbag actuator or between the airbag actuator and the airbag. The switch control includes a device to open the interrupt switch and an access control device. The access control device prevents deactivation of the airbag inflating system by non-emergency personnel. Embodiments of the access control device include restricted **electromagnetic** band communication between a signal source and a signal transducer. The transducer opens the interrupt switch to deactivate the airbag inflation system. In other embodiments, a mechanical lock is used. Keys to these locks may be made available to emergency services personnel.

French Abstract

L'invention porte sur un systeme de desactivation d'airbags d'automobiles permettant aux personnels de secours d'empecher le gonflement inopine des airbags non declenches pendant que les victimes d'un accident sont extraites d'un vehicule accidenté, la desactivation de tous les dispositifs de gonflage étant assurée par ledit personnel. Le systeme de desactivation comporte un interrupteur, et une commande d'interrupteur, l'interrupteur étant placé de manière à empêcher le gonflage soit entre le circuit de commande de gonflage, et l'activateur de l'airbag, soit entre l'activateur de l'airbag et l'airbag. Un dispositif de restriction

limite l'accès au système au personnel de secours; dans certaines réalisations, il consiste en un transducteur électromagnétique qui ouvre l'interrupteur et désactive le système de gonflage, dans d'autres réalisations, il consiste en une serrure mécanique. Les clefs correspondantes peuvent être mise à la disposition du personnel de secours.

Legal Status (Type, Date, Text)

Publication 20010830 A1 With international search report.

Publication 20010830 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20011206 Request for preliminary examination prior to end of 19th month from priority date

Set	Items	Description
S1	305	AU=(LEWALLEN D? OR LEWALLEN, D?)
S2	1	DAVID(2N)LEWALLEN
S3	4168579	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S4	5	S1:S2 AND S3
S5	2	RD (unique items)

? show files

File 94:JICST-EPlus 1985-2004/May W5
(c)2004 Japan Science and Tech Corp(JST)

File 95:TEME-Technology & Management 1989-2004/Jun W1
(c) 2004 FIZ TECHNIK

File 99:Wilson Appl. Sci & Tech Abs 1983-2004/May
(c) 2004 The HW Wilson Co.

File 35:Dissertation Abs Online 1861-2004/May
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File 8:Ei Compendex(R) 1970-2004/Jun W2
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File 34:SciSearch(R) Cited Ref Sci 1990-2004/Jun W3
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
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File 65:Inside Conferences 1993-2004/Jun W3
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File 473:FINANCIAL TIMES ABSTRACTS 1998-2001/APR 02
(c) 2001 THE NEW YORK TIMES

File 474:New York Times Abs 1969-2004/Jun 24
(c) 2004 The New York Times

File 475:Wall Street Journal Abs 1973-2004/Jun 24
(c) 2004 The New York Times

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(c) 2004 ACFCI & Chambre CommInd Paris

File 48:SPORTDiscus 1962-2004/Jun
(c) 2004 Sport Information Resource Centre

File 50:CAB Abstracts 1972-2004/May
(c) 2004 CAB International

File 155:MEDLINE(R) 1966-2004/Jun W2
(c) format only 2004 The Dialog Corp.

File 5:Biosis Previews(R) 1969-2004/Jun W3
(c) 2004 BIOSIS

File 73:EMBASE 1974-2004/Jun W2
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File 71:ELSEVIER BIOBASE 1994-2004/Jun W2
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File 144:Pascal 1973-2004/Jun W2
(c) 2004 INIST/CNRS

File 164:Allied & Complementary Medicine 1984-2004/May
(c) 2004 BLHCIS

File 91:MANTIS(TM) 1880-2004/Jul
2001 (c) Action Potential

File 467:ExtraMED(tm) 2000/Dec
(c) 2001 Informania Ltd.

?

5/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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08787924 PMID: 2281754

Quantification of bone healing. Comparison of QCT, SPA, MRI, and DEXA in dog osteotomies.

Markel M D; Wikenheiser M A; Morin R L; Lewallen D G ; Chao E Y
Department of Orthopedics, Mayo Clinic, Rochester, Minnesota 55905.
Acta orthopaedica Scandinavica (DENMARK) Dec 1990, 61 (6) p487-98,
ISSN 0001-6470 Journal Code: 0370352
Contract/Grant No.: AR08045; AR; NIAMS
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Markel M D; Wikenheiser M A; Morin R L; Lewallen D G ; Chao E Y
... used to quantitatively evaluate and compare tibial osteotomy healing in dogs. Quantitative computed tomography (QCT), magnetic resonance imaging (MRI), single-photon absorptiometry (SPA), and dual-energy x-ray absorptiometry (DEXA) were...
; Absorptiometry, Photon--methods--MT; Animals; Biomechanics; Bony Callus--chemistry--CH; Dogs; Magnetic Resonance Imaging; Tibia--chemistry--CH; Tibia--surgery--SU; Tomography, X-Ray Computed; Wound Healing

5/3,K/2 (Item 1 from file: 73)
DIALOG(R)File 73:EMBASE
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11342497 EMBASE No: 2001356734

Vertebral osteomyelitis and prosthetic joint infection due to Staphylococcus simulans

Razonable R.R.; Lewallen D.G. ; Patel R.; Osmon D.R.
Dr. D.R. Osmon, Division of Infectious Diseases, Mayo Clinic, 200 First St SW, Rochester, MN 55905 United States
Mayo Clinic Proceedings (MAYO CLIN. PROC.) (United States) 2001, 76/10 (1067-1070)
CODEN: MACPA ISSN: 0025-6196
DOCUMENT TYPE: Journal ; Article
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH
NUMBER OF REFERENCES: 22

Razonable R.R.; Lewallen D.G. ; Patel R.; Osmon D.R.
MEDICAL DESCRIPTORS:
...intervertebral disk; bone biopsy; bacterium culture; arthroplasty; pelvis fracture--surgery--su; arthrosis--surgery--su; nuclear magnetic resonance imaging; human; male; case report; aged; article; nucleotide sequence

Set	Items	Description
S1	438	AU=(LEWALLEN D? OR LEWALLEN, D?)
S2	5	DAVID(2N)LEWALLEN
S3	674908	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S4	5	S1:S2 AND S3
S5	4	RD (unique items)

? show files

File 16:Gale Group PROMT(R) 1990-2004/Jun 24
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File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 148:Gale Group Trade & Industry DB 1976-2004/Jun 24
(c)2004 The Gale Group

File 149:TGG Health&Wellness DB(SM) 1976-2004/Jun W2
(c) 2004 The Gale Group

File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jun 24
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File 369:New Scientist 1994-2004/Jun W2
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File 370:Science 1996-1999/Jul W3
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File 135:NewsRx Weekly Reports 1995-2004/Jun W1
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File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Jun 24
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File 646:Consumer Reports 1982-2004/Jun
(c) 2004 Consumer Union

File 609:Bridge World Markets 2000-2001/Oct 01
(c) 2001 Bridge

File 649:Gale Group Newswire ASAP(TM) 2004/Jun 23
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(c) 2004 Business Wire.

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REVIEW

File 613:PR Newswire 1999-2004/Jun 24
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File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
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File 20:Dialog Global Reporter 1997-2004/Jun 24
 (c) 2004 The Dialog Corp.
File 570:Gale Group MARS(R) 1984-2004/Jun 24
 (c) 2004 The Gale Group
?

Set	Items	Description
S1	1068422	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	1351882	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	2792	(BED OR BEDS OR PRESSURE? OR COMPRESS? OR DECUBIT?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	191338	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	170305	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MITIGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS? () FORCE-?)
S6	4055	SPACE? () APART (5N) RELATION?
S7	455397	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S8	12	S1 AND S2 AND S3
S9	6	S8 AND S4:S7
S10	12	S8:S9
S11	12	IDPAT (sorted in duplicate/non-duplicate order)

? show files.

File 347:JAPIO Nov 1976-2004/Feb(Updated 040607)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200439

(c) 2004 Thomson Derwent

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Set	Items	Description
S1	1068422	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	1351882	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	2267	(BED OR BEDS OR PRESSURE? OR COMPRESS?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	191338	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	170305	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MIT-IGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS?()) FORCE-?)
S6	4055	SPACE?()APART(5N)RELATION?
S7	455397	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S8	10	S1 AND S2 AND S3
S9	5	S8 AND S4:S7
S10	10	S8:S9
S11	10	IDPAT (sorted in duplicate/non-duplicate order)

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File 347:JAPIO Nov 1976-2004/Feb(Updated 040607)
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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200439
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11/3,K/1 (Item 1 from file: 350)
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016230077 **Image available**
WPI Acc No: 2004-387966/200436
XRPX Acc No: N04-308837

Soft tissue compressive force reducing method for spinal cord
injury patient, involves imbedding opposing magnet in wheelchair to
produce opposing force acting on permanent magnet implanted in
ischial tuberosity of pelvis

Patent Assignee: LEWALLEN D G (LEWA-I)

Inventor: LEWALLEN D G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040077922	A1	20040422	US 2002406468	P	20020828	200436 B
			US 2003650266	A	20030828	

Priority Applications (No Type Date): US 2002406468 P 20020828; US
2003650266 A 20030828

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20040077922	A1		5	A61N-002/00	Provisional application US 2002406468

Soft tissue compressive force reducing method for spinal cord
injury patient, involves imbedding opposing magnet in wheelchair to
produce opposing force acting on permanent magnet implanted in
ischial tuberosity of pelvis

Abstract (Basic):

... The method involves implanting a permanent magnet (30) in an
ischial tuberosity (18) of the pelvis of a human seated in a
wheelchair, where the permanent magnet is housed in a circular
cylindrical container (32). An opposing magnet (34) is imbedded
in a supporting seat cushion (36) of the wheelchair for producing an
opposing force that acts upward on the implanted magnet .

... An INDEPENDENT CLAIM is also included for a magnet assembly
for reducing compressive forces on soft tissue disposed between a
bone in a subject and a supporting structure...

...Used for a spinal cord injury patient for reducing compressive
force on soft tissue disposed between a pelvic bone and a supporting
structure e.g. wheelchair...

...The opposing magnet is imbedded in a supporting seat cushion to
produce an opposing force that acts upward on the implanted magnet
, thereby alleviating excessive pressure on the bone prominence,
and hence allows for better perfusion of the soft tissue and prevents
development of pressure related decubital ulcers .

...

...Permanent magnet (30...

... Opposing magnet (34

...Title Terms: MAGNET ;

International Patent Class (Main): A61N-002/00

International Patent Class (Additional): A61B-017/52

11/3,K/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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004716420
WPI Acc No: 1986-219762/198634
XRAM Acc No: C86-094598
XRPX Acc No: N86-164040

Cushion for decubital sores therapy - has magnet coil embedded in
layers of specified plastic materials

Patent Assignee: AMOENA MEDIZIN-ORTH (AMOE-N)

Inventor: LEYERER R

Number of Countries: 011 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 191129	A	19860820	EP 85106461	A	19850524	198634 B

Priority Applications (No Type Date): DE 3504627 A 19850211

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 191129	A	G	8		

Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

Cushion for decubital sores therapy...
...has magnet coil embedded in layers of specified plastic materials

...Abstract (Basic): Patients in invalid chairs or who are bedridden can be
treated for decubital sores or can be protected from them by a
cushion with a bottom plate of rigid plastic and a layer of expanded
plastics in which a magnet coil is embedded. This is connected by a
plug to a flex for a generator to produce a magnetic field with a
frequency of 8Hz. The next layer is a silicone rubber of the...

...Title Terms: MAGNET ;

International Patent Class (Additional): A61G-007/04

Set	Items	Description
S1	158329	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	585379	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	4142	(BED OR BEDS OR PRESSURE? OR COMPRESS? OR DECUBIT?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	120775	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	130146	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MITIGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS?()) FORCE-?)
S6	8229	SPACE?()APART(5N)RELATION?
S7	109515	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S8	29	S1(10N)S2 AND S3
S9	23	S8 AND S4:S7
S10	29	S8:S9
S11	29	IDPAT (sorted in duplicate/non-duplicate order)

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File 348:EUROPEAN PATENTS 1978-2004/Jun W02

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Set	Items	Description
S1	158329	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	585379	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	3694	(BED OR BEDS OR PRESSURE? OR COMPRESS?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	120775	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	130146	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MIT-IGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS? () FORCE-?)
S6	8229	SPACE? () APART (5N) RELATION?
S7	109515	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S8	25	S1(10N)S2 AND S3
S9	19	S8 AND S4:S7
S10	25	S8:S9
S11	25	IDPAT (sorted in duplicate/non-duplicate order)

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Set	Items	Description
S1	674908	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	1925794	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	15632	(BED OR BEDS OR PRESSURE? OR COMPRESS? OR DECUBIT?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	354632	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	203076	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MITIGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS? () FORCE-?)
S6	3	SPACE? () APART (5N) RELATION?
S7	0	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S8	11	S1(10N)S2 AND S3
S9	7	S8 AND S4:S7
S10	11	S8:S9
S11	8	S10 AND PY<2003
S12	7	RD (unique items)

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01188747 98-38142

Pneumatic pump inflates wheelchair seat

Anonymous

Machine Design v68n7 PP: 32 Apr 4, 1996

ISSN: 0024-9114 JRNL CODE: MDS

WORD COUNT: 210

ABSTRACT: Changing the pressure distribution in a seat for spinal-injury patients quickly cures **pressure ulcers**. However, large-displacement pumps are bulky and run on heavy batteries. Sandia Laboratories, Albuquerque, New...

TEXT: Changing the pressure distribution in a seat for spinal-injury patients quickly cures **pressure ulcers**, but large-displacement pumps are bulky and run off heavy batteries. A portable system developed...

... sets of bladders, inflating them in 90degree phase separation. To minimize the risk of leaks, **magnets embedded** in each piston trigger externally mounted reed switches when the piston reaches the end of...

Set	Items	Description
S1	4168579	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	4051509	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	27819	(BED OR BEDS OR PRESSURE? OR COMPRESS? OR DECUBIT?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	219202	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	185880	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MITIGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS? () FORCE-?)
S6	104	SPACE? () APART (5N) RELATION?
S7	1	IC=(A61B? OR A61N? OR A61G? OR A47C? OR A61F?)
S8	55	S1 AND S2 AND S3
S9	6	S8 AND S4:S7
S10	55	S8:S9
S11	44	S10 AND PY<2003
S12	24	RD (unique items)

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Set	Items	Description
S1	4168579	MAGNET? OR ELECTROMAGNET? OR FERROMAGNET? OR PARAMAGNET? OR PERMAMAGNET? OR BIOMAGNET?
S2	4051509	IMPLANT? OR EMBED? OR IMBED? OR EMPLANT? OR TRANSPLANT? OR INFIX? OR INSERT? OR ENGRAFT?
S3	21920	(BED OR BEDS OR PRESSURE? OR COMPRESS?) (2N) (ULCER? OR SORE? ? OR CHANCER? OR LESION? OR WOUND?)
S4	219202	REPULS? OR REPEL? OR OPPOSING OR LEVITAT?
S5	185880	(REDUC? OR ALLEVIAT? OR EASE? OR EASING OR LIGHTEN? OR MITIGAT? OR ABAT? OR PREVENT?) (5N) (PRESSURE? OR COMPRESS?()) FORCE-?)
S6	104	SPACE?()APART(5N)RELATION?
S7	50	S1 AND S2 AND S3
S8	6	S7 AND S4:S6
S9	50	S7:S8
S10	39	S9 AND PY<2003
S11	23	RD (unique items)

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